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(Buildings Geo-Tech & Highway Materials Testing Laboratory)
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20 Date: 27.02.2020

TEST REPORT

CLIENT	:	**Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.
CONSULTANTS	:	**M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.
AGENCY	:	**Sri. K S Chowda Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	January - 2020
DATE OF TESTING	:	25.02.2020 to 27.02.2020
SAMPLES SUPPLIED BY	:	AGENCY

Assistant Executive Engineer Projects Division Yelahanka Zone BBMP, Bangalore-92

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	450 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

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Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20 Date : 27.02.2020

Executive Engineer Division Zone Bangalore - 92

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.
Consultants : **M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.
Agency : **Sri. K S Chowda Reddy,** Contractor, Bangalore.
Name of Work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

Date of Testing : 27.02.2020

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	152	15.20	23.60	76.4	75-100
1.18	138	13.80	37.40	62.6	55-90
600 Micron	220	22.00	59.40	40.6	35-59
300 Micron	189	18.90	78.30	21.7	8-30
150 Micron	162	16.20	94.50	5.5	0-10

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Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20 Date : 27.02.2020

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.
Consultants : **M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.
Agency : **Sri. K S Chowda Reddy,** Contractor, Bangalore.
Name of Work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

Date of Testing : 27.02.2020
Material : 40mm Aggregates

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	132	0.88	0.88	99.12	95-100
20	8250	55.00	55.88	44.12	30-70
10	3126	20.84	76.72	23.28	10-35
4.75	2896	19.31	96.03	3.97	0-5

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Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20 Date : 13.06.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.
Consultants : **M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.
Agency : **Sri. K S Chowda Reddy,** Contractor, Bangalore.
Agency : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06,
Name of Work : 27.02.2020

Date of Testing : 13.06.2019
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	175	3.5	3.5	96.5	95-100
10	2430	48.6	52.1	47.9	25-55
4.75	1989	39.8	91.9	8.1	0-10

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Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20

Date: 27.02.2020

Executive Engineer Projects Division Yelahanka Zone BBMP, Bangalore - 64

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.

Consultants : **M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.

Agency : **Sri. K S Chowda Reddy,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

Sample Identification : 8mm,10mm,12mm,16mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 27.02.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.38	515	568	13
2	Fe 500	10	0.63	526	584	14
3	Fe 500	12	0.89	535	573	14.5
4	Fe 500	16	1.58	510	592	15

Remarks:

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Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20

09.03.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.
Consultants	: **M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.
Contractor	: **Sri. K S Chowda Reddy,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Asst. Executive Engineer
Projects Division
Yelahanka Zone
BBMP Bangalore - 92

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.03.2020	09.03.2020	8.162	338.6	15.05
2	02.03.2020	09.03.2020	8.138	364.5	16.20
3	02.03.2020	09.03.2020	8.146	359.2	15.96

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Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20

30.03.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.
Consultants	: **M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.
Contractor	: **Sri. K S Chowda Reddy,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.03.2020	30.03.2020	8.218	505.2	22.45
2	02.03.2020	30.03.2020	8.252	516.9	22.97
3	02.03.2020	30.03.2020	8.264	538.2	23.92

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Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20 13.03.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.
Consultants	: **M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.
Contractor	: **Sri. K S Chowda Reddy,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.03.2020	13.03.2020	8.158	356.3	15.84
2	06.03.2020	13.03.2020	8.184	369.2	16.41
3	06.03.2020	13.03.2020	8.166	346.2	15.39

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Project Division
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Job No.: CQCE/BBMP/KSCR/W.No.06/2019-20 03.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Projects Yelahanka Division, BBMP, Bangalore.

Consultants : **M/s. Infra Technocrats Consultants (Prop. Mahesh S Konaskumpi),** Bangalore.

Contractor : **Sri. K S Chowda Reddy,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.03.2020	03.04.2020	8.228	501.3	22.28
2	06.03.2020	03.04.2020	8.265	526.9	23.42
3	06.03.2020	03.04.2020	8.246	535.4	23.80

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Email: infratechnocrats2017@gmail.com

Test Report on Cement

Project	Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Infra Technocrats Consultants
Contractor	Shri K.S. Chowdareddy
Sample ID	Cement
Date of Sample Tested	11.03.2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	33	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	348	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.50%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06
Consultants	M/s Infra Technocrats Consultants
Contractor	Shri.K.S.Chowdareddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	Rough Plastering
Location/Source	At Site/Plant	Date of Sampling	11.03.2020
Period of Soaking	24 hours	Date of Testing	11.03.2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	652	639	668	
B	Weight of oven - dry sample gm.	649	632	661	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1683	1678	1692	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.678	2.633	**2.657**
G	Absorption (%) $\frac{(A-B)*100}{B}$	0.462	1.108	1.059	**0.876**

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Assistant Executive Engineer
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06
Consultants	M/s Infra Technocrats Consultants
Contractor	Shri.K.S.Chowdareddy

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	Rough Plastering
Sample Location	At Site/Plant	**Date of Sampling**	11.03.2020
		Date of Testing	11.03.2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	215	215	7.17	92.83	90 - 100
2.36 mm	306	521	17.37	82.63	75 - 100
1.18 mm	429	950	31.67	68.33	55 - 90
0.600 mm	496	1446	48.20	51.80	35 -59
0.300 mm	696	2142	71.40	28.60	8-30
0.150 mm	680	2822	94.07	5.93	0 - 10
Pan	178	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Improvements to roads and drains at Hegdenagara and surrounding Areas in Ward No.06
Consultants	M/s Infra Technocrats Consultants
Contractor	Shri.K.S.Chowdareddy
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	PCC
Sample Location	At Site/Plant	Date of Sampling	11.03.2020
		Date of Testing	11.03.2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	89	89	2.97	97.03	95-100
20.00mm	1395	1484	49.47	50.53	30-70
10.00mm	977	2461	82.03	17.97	10-35
4.75mm	469	2930	97.67	2.33	0-5
Pan	70	3000	100.00	0.00	

Remarks : Satisfactory

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